

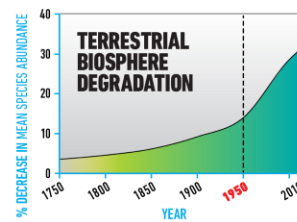
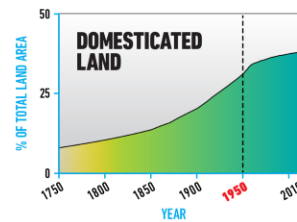
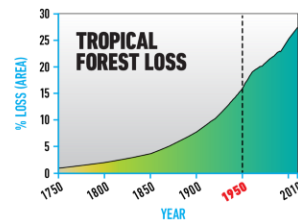
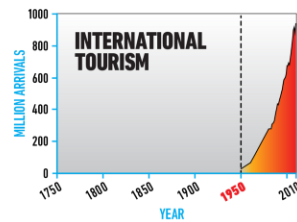
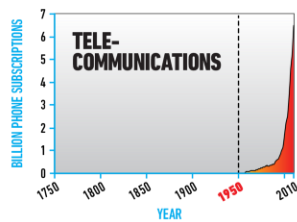
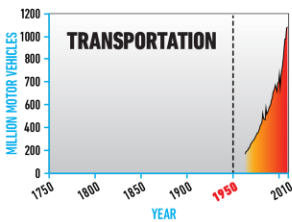
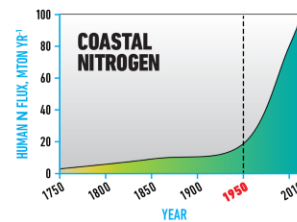
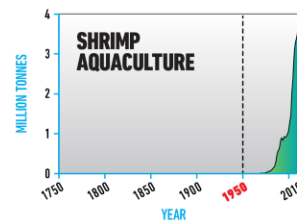
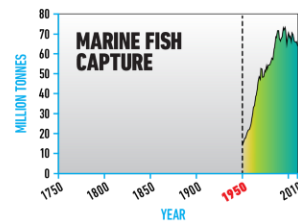
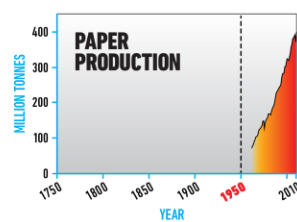
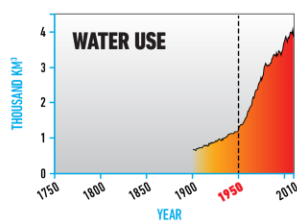
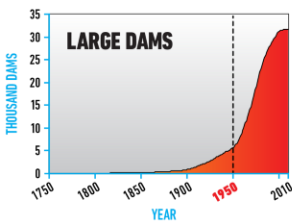
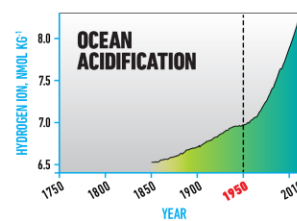
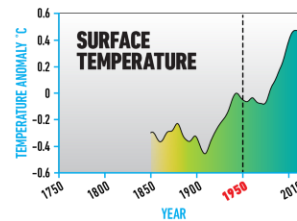
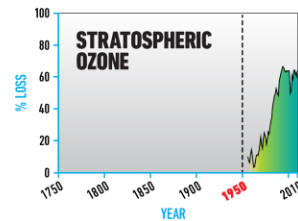
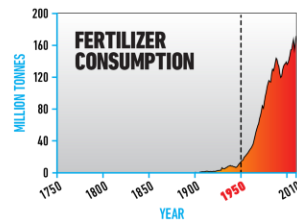
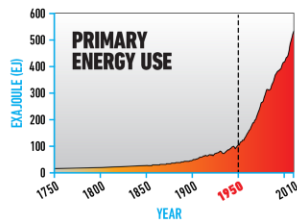
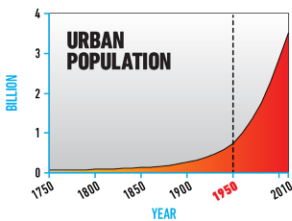
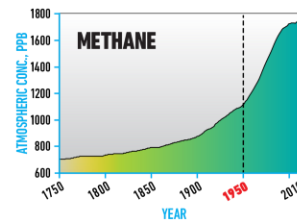
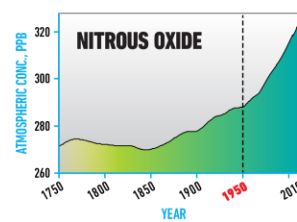
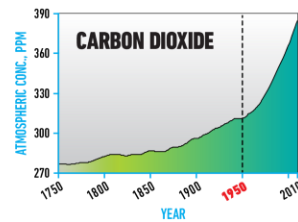
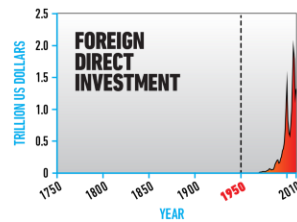
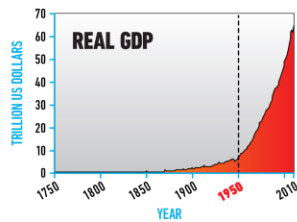
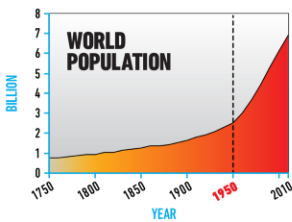
Escola Som Connexió

Novembre 2022

Impactes en el medi ambient del consum de telecomunicacions

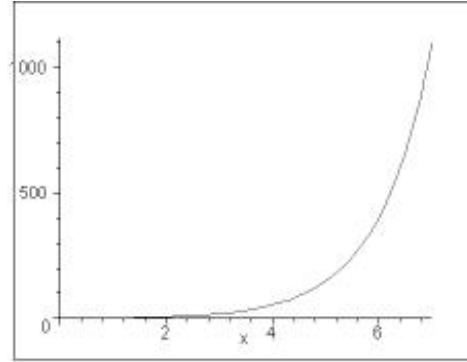
Sergi Rovira, professor en Tecnologia, Societat i Medi Ambient, UPC

QUINA PARAULA DEFINEIX EL NOSTRE TEMPS?



Funció exponencial

$$p(t) = a^t$$

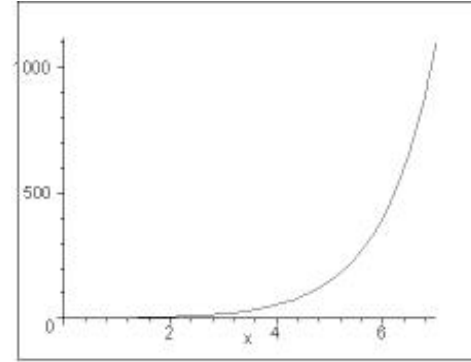


Si es doblega per la meitat un full de paper de fumar,
el gruix es dobla.

Si es fes això 50 cops, quin gruix seria?

Funció exponencial

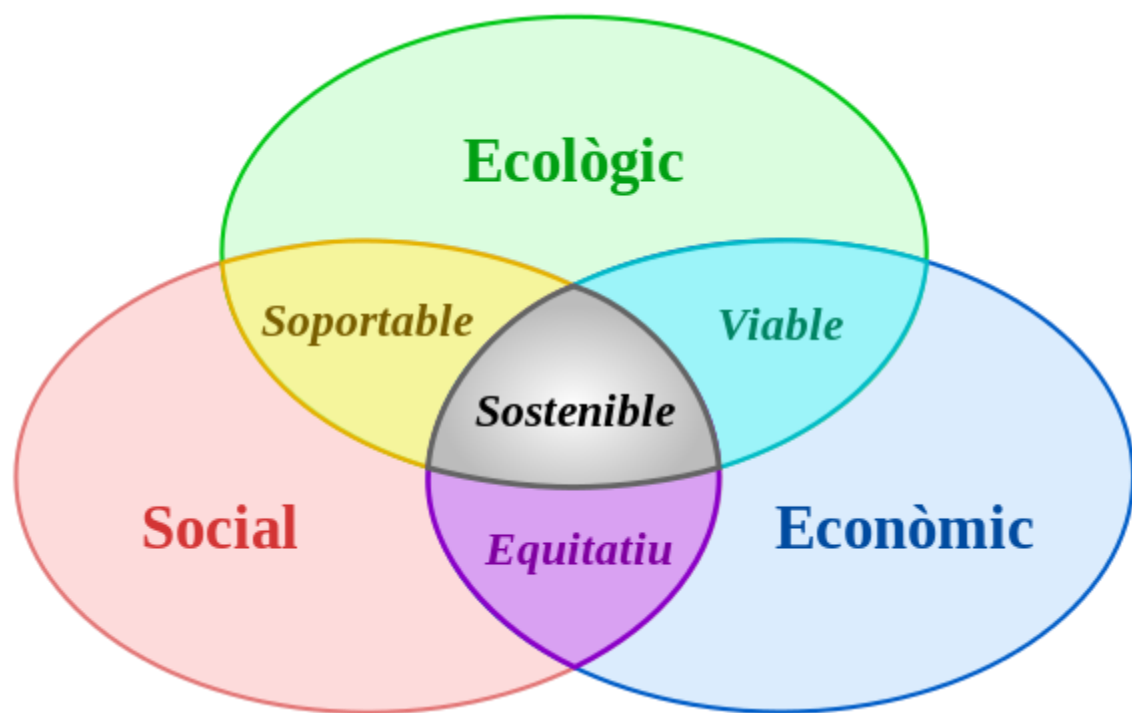
$$p(t) = a^t$$



Si es doblega per la meitat un full de paper de fumar,
el gruix es dobla.

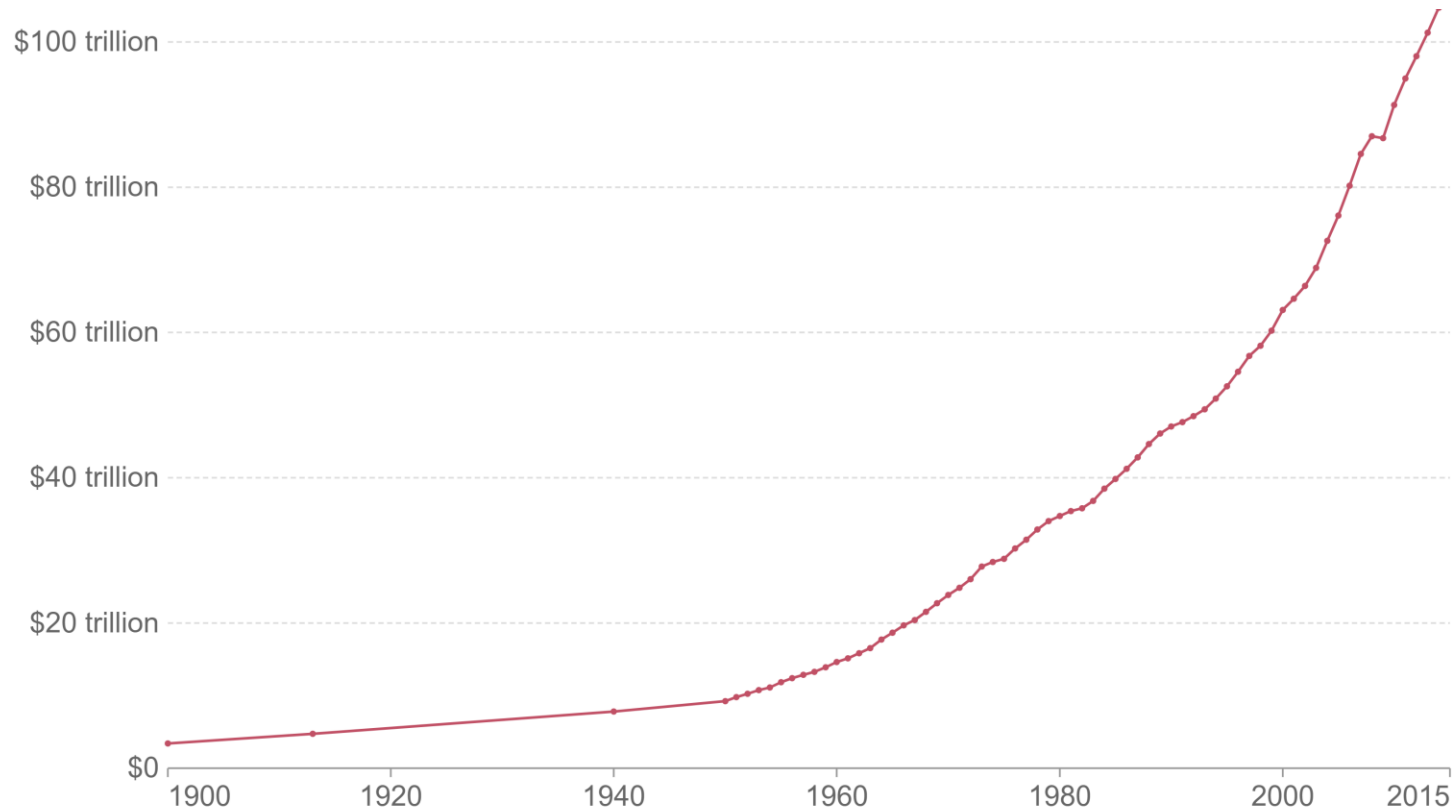
Si es fes això 50 cops, quin gruix seria?

La distància de la Terra a la Lluna



World GDP over the last two millennia

Total output of the world economy; adjusted for inflation and expressed in international-\$ in 2011 prices.

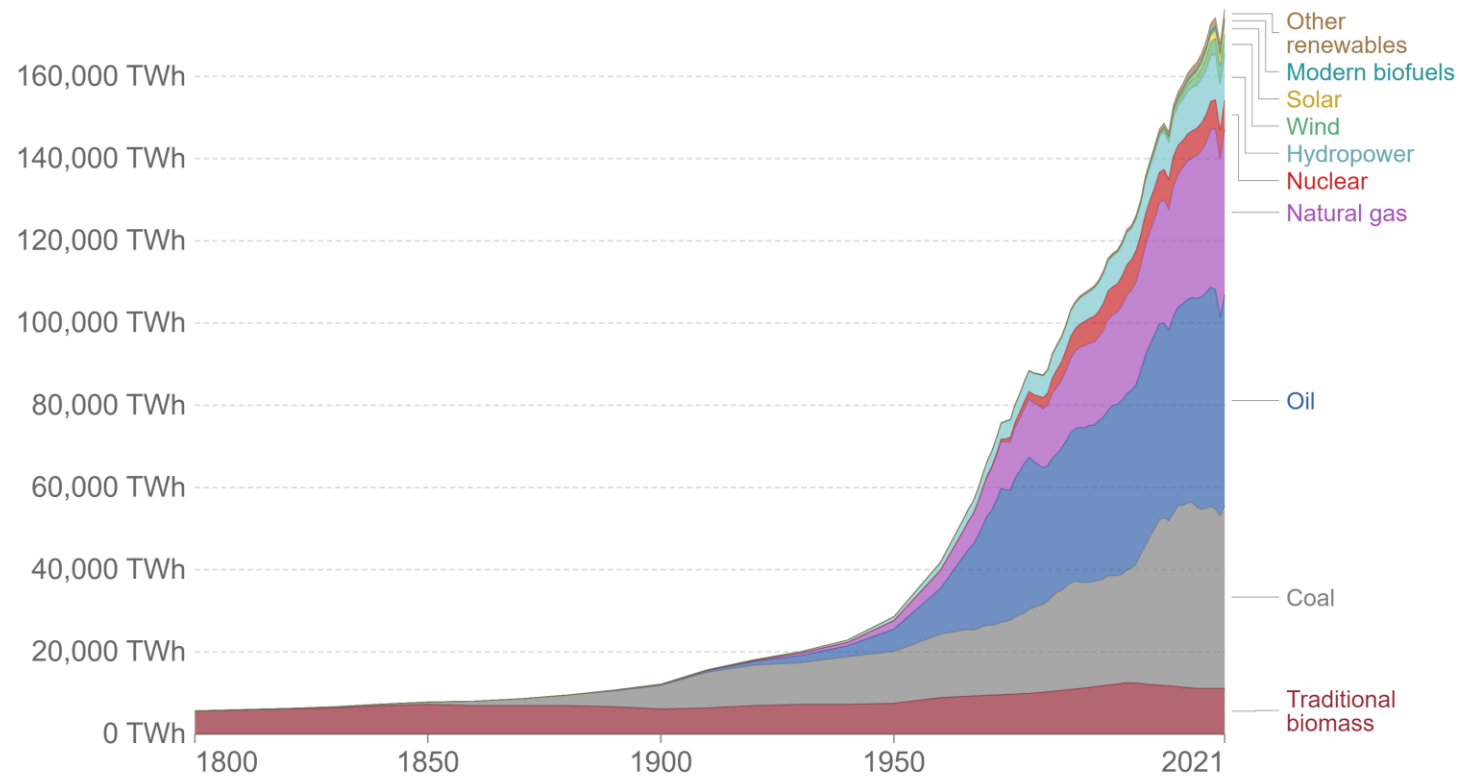


Source: World GDP - Our World In Data based on World Bank & Maddison (2017)

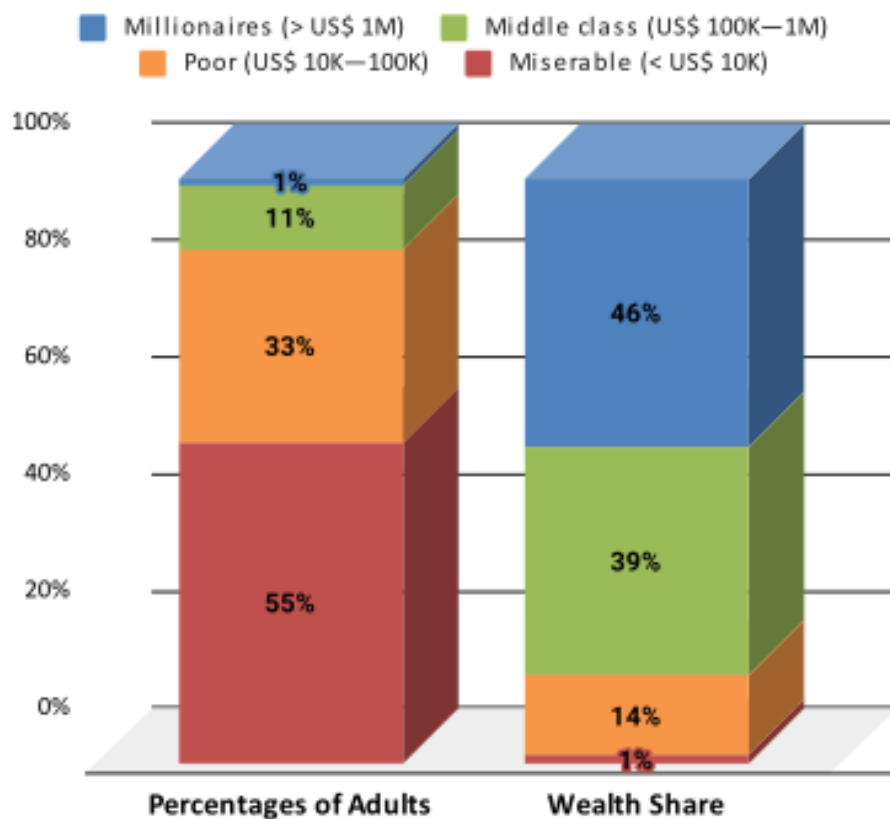
OurWorldInData.org/economic-growth • CC BY

Global primary energy consumption by source

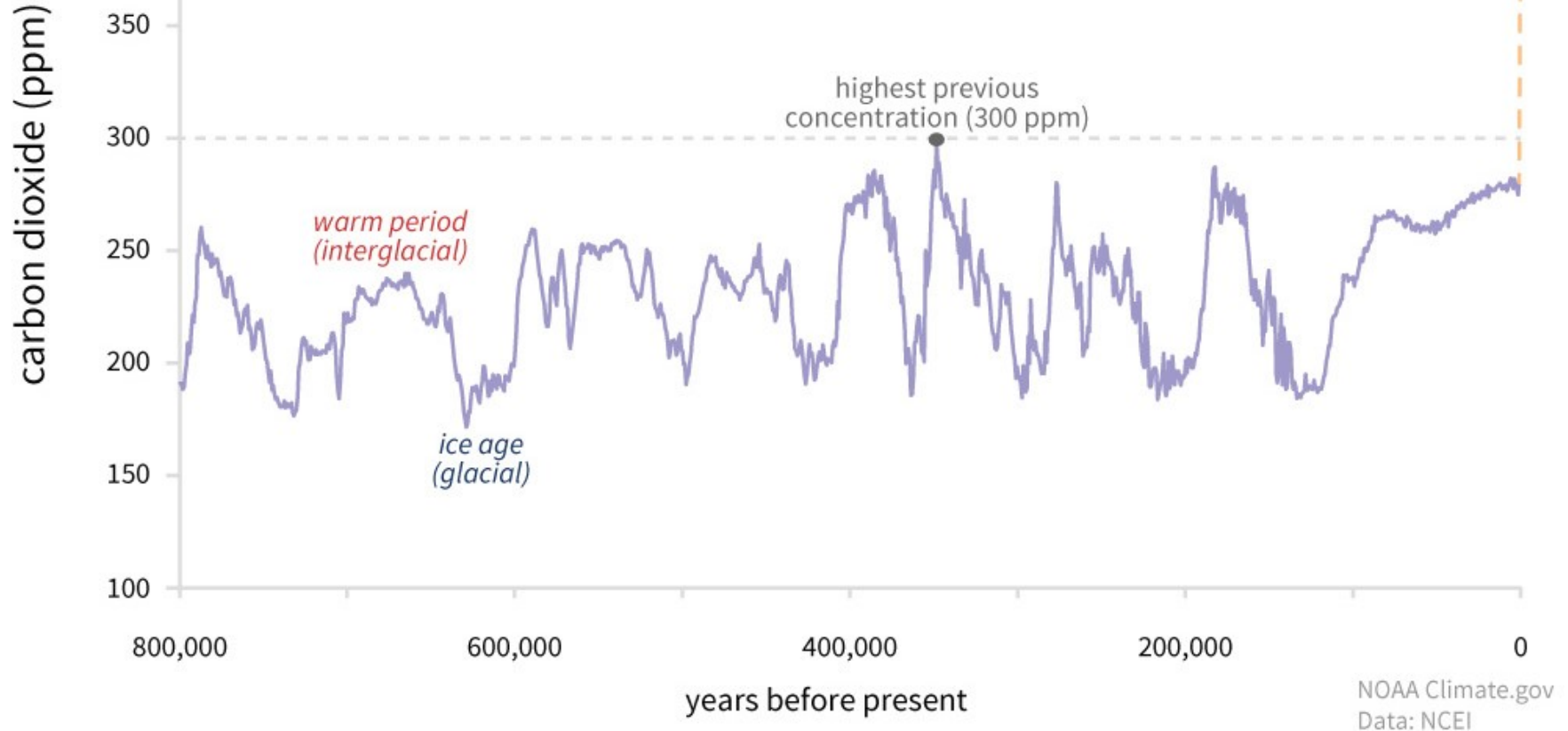
Primary energy is calculated based on the 'substitution method' which takes account of the inefficiencies in fossil fuel production by converting non-fossil energy into the energy inputs required if they had the same conversion losses as fossil fuels.



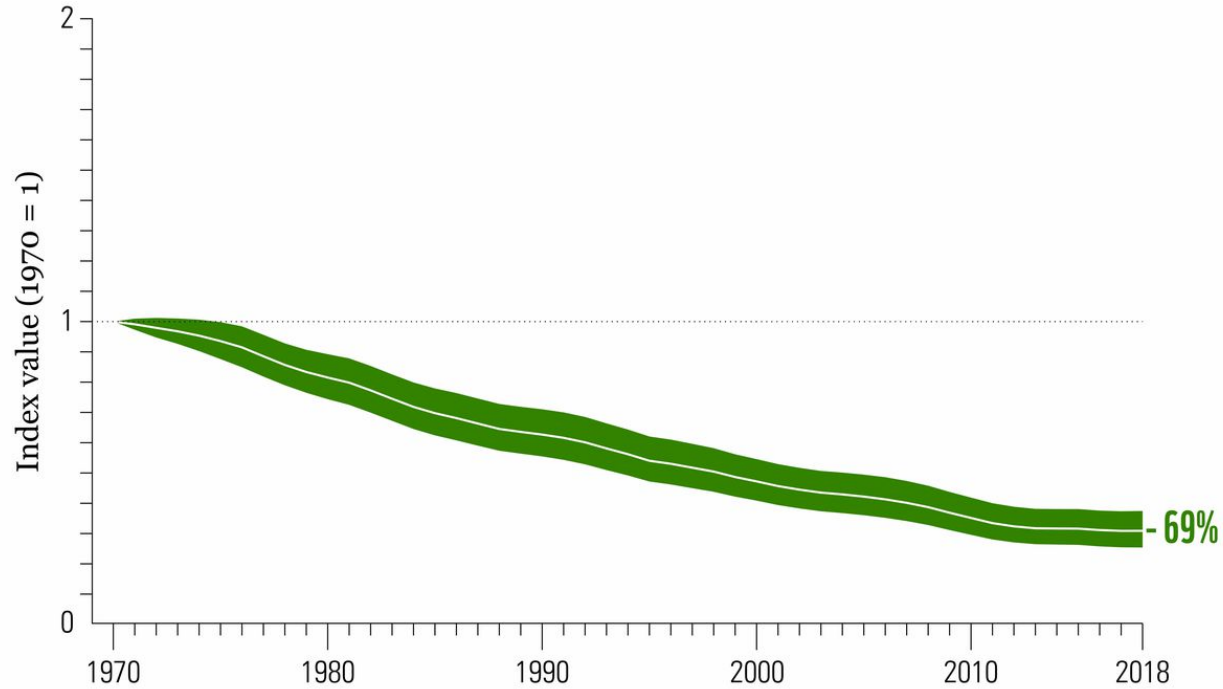
Global Wealth Distribution 2020 (Property)

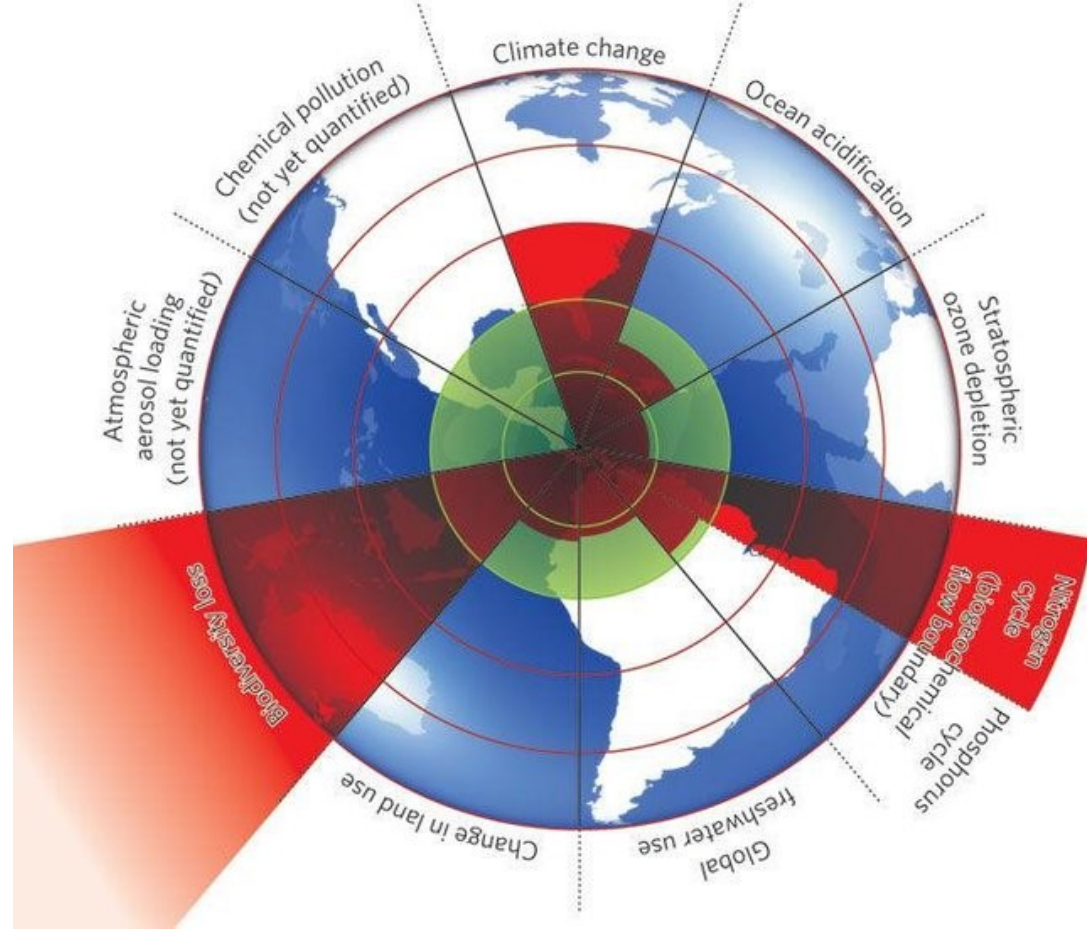


Evolució de la concentració de CO₂ a l'atmosfera

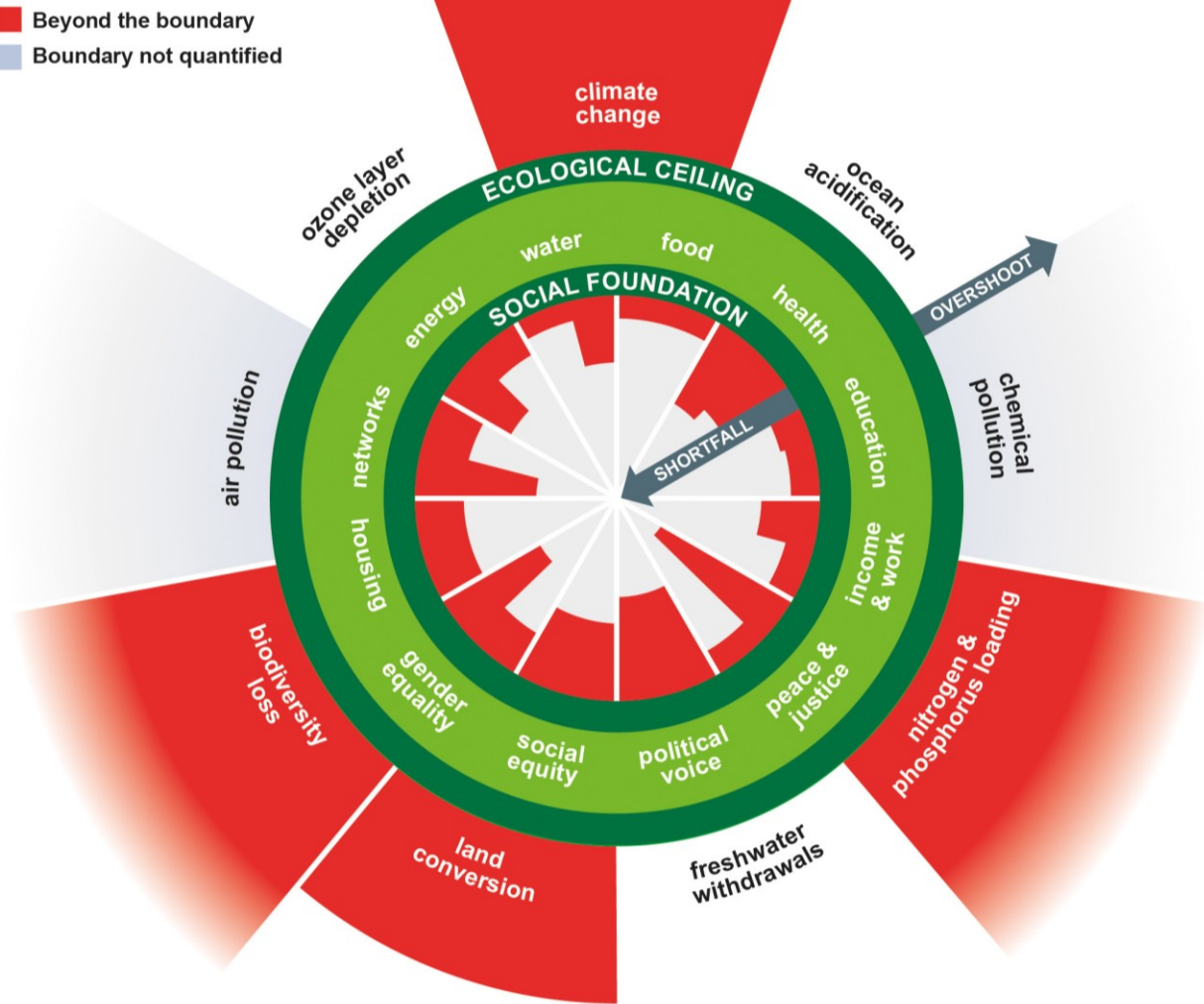


Living Planet Index, 2022

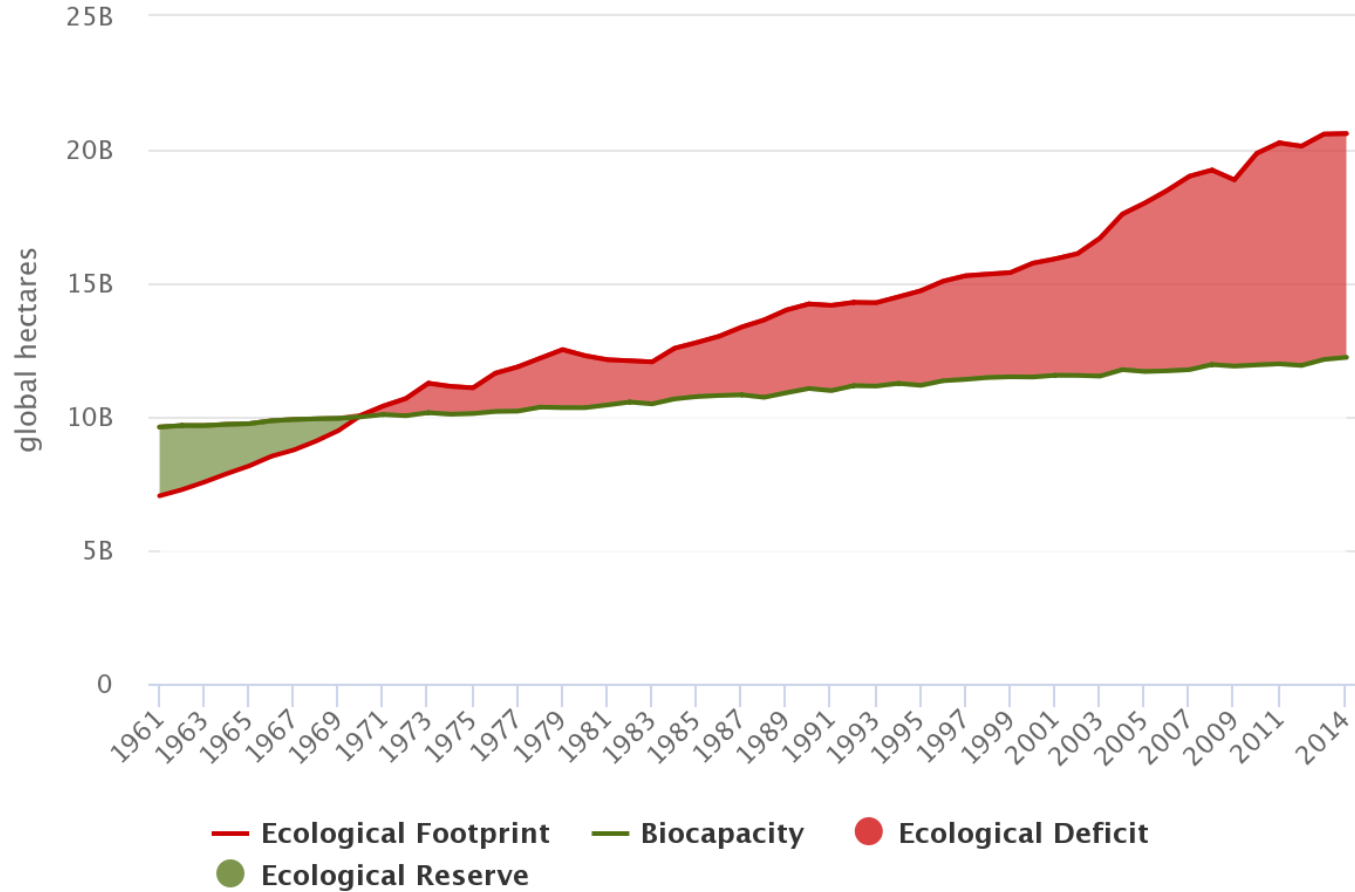




■ Beyond the boundary
■ Boundary not quantified



World





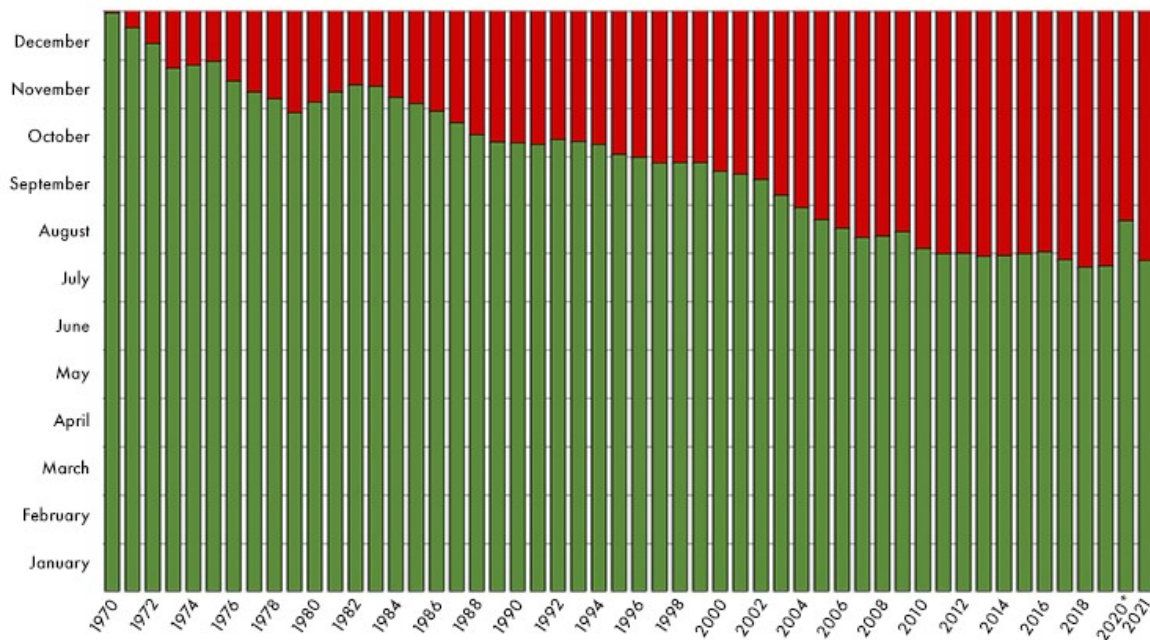
1 Earth

Earth Overshoot Day

1970 - 2021



1.7 Earths



fodafo
FOOTPRINT DATA FOUNDATION



**EARTH
OVERSHOOT
DAY**

*The calculation of Earth Overshoot Day 2020 reflects the initial drop in resource use in the first half of the year due to pandemic-induced lockdowns. All other years assume a constant rate of resource use throughout the year.

Source: National Footprint and Biocapacity Accounts 2021 Edition
data.footprintnetwork.org